


<b>FORM PTO-1449</b> (REV. 7-80)		<b>U.S. DEPARTMENT OF COMMERCE</b> <b>PATENT AND TRADEMARK OFFICE</b>			<b>ATTY. DOCKET NO.</b> WSHU 2005.1	<b>SERIAL NO.</b> 09/637,216
<b>LIST OF PRIOR ART CITED BY APPLICANT</b> (Use several sheets if necessary)						
				<b>APPLICANT</b> Hultgren, et al.		
				<b>FILING DATE</b> August 11, 2000		<b>GROUP</b> <del>1645</del> 1631

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	


FOREIGN PATENT DOCUMENTS								
*EXAMINER INITIAL	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
						YES	NO	
MBS	1	EP 45665	1982	EPO	—	—		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
MBS	2	Abraham SN, et al., "Conservation of the D-Mannose-Adhesion Protein Among Type 1 Fimbriated Members of the Family Enterobacteriaceae", Nature, Vol. 336, pp. 682-684 (1988)
	3	Bohm, HJ, "The Computer Program LUDI: A New Method for the De Novo Design of Enzyme Inhibitors", J. Comp. Aid. Molec. Design, Vol. 6, No. 1, pp. 61-78 (1992)
	4	Choudhury D, et al., "X-ray Structure of the FimC-FimH Chaperone-Adhesin Complex from Uropathogenic <i>Escherichia coli</i> ", Science, Vol. 285, pp. 1061-1066 (1999)
	5	Holmgren A, et al., "Crystal Structure of Chaperone Protein PapD Reveals an Immunoglobulin Fold", Nature, Vol. 342, No. 6247, pp. 248-251 (1989)
	6	Hultgren SJ, et al., "Pilus and Nonpilus Bacterial Adhesins: Assembly and Function in Cell Recognition", Cell, Vol. 73, No. 5, pp. 887-901 (1993)
	7	Hung DL, et al., "Molecular Basis of Two Subfamilies of Immunoglobulin-Like Chaperones", The EMBO J., Vol. 15, No. 15, pp. 3792-3805 (1996)
	8	Jones CH, et al., "The Chaperone-Assisted Membrane Release and Folding Pathway is Sensed by Two Signal Transduction Systems", The EMBO Journal, Vol. 16, No. 21, pp. 6394-6406 (1997)
	9	Jones CH, et al., "FimH Adhesin of Type 1 Pili is Assembled Into a Fibrillar Tip Structure in the <i>Enterobacteriaceae</i> ", Proc. Natl. Acad. Sci. USA, Vol. 92, pp. 2081-2085 (1995)

EXAMINER <u>Monika B. Shainberg</u>	DATE CONSIDERED <u>8/29/01</u>
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>	

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				FILING DATE August 11, 2000	GROUP <del>1645</del> 1631



MBS	10	Krogfelt KA, et al., "Direct Evidence That The FimH Protein is the Mannose-Specific Adhesin of <i>Escherichia Coli</i> Type 1 Fimbriae", <i>Infection and Immunity</i> , Vol. 58, No. 6, pp. 1995-1998 (1990)
	11	Kuehn MJ, et al., "Immunoglobulin-Like PapD Chaperone Caps and Uncaps Interactive Surfaces of Nascently Translocated Pilus Subunits", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 88, pp. 10586-10590 (1991)
	12	Kuehn MJ, et al., "Structural Basis of Pilus Subunit Recognition by the PapD Chaperone", <i>Science</i> , Vol. 262, pp. 1234-1241 (1993)
	13	Pellecchia M, et al., "Pilus Chaperone FimC-Adhesin FimH Interactions mapped by TROSY-NMR", <i>Nature Structural Biology</i> , Vol. 6, No. 4, pp. 336-339 (1999)
	14	Pellecchia M, et al., "NMR Solution Structure of the Periplasmic Chaperone FimC", <i>Nature Structural Biology</i> , Vol. 5, No. 10, pp. 885-890 (1998)
	15	Sauer FG, et al., "Structural Basis of Chaperone Function and Pilus Biogenesis", <i>Science</i> , Vol. 285, pp. 1058-1061 (1999)
	16	Schembri MA, et al., "Linker Insertion Analysis of the FimH Adhesin of Type 1 Fimbriae in an <i>Escherichia coli</i> fimH-null background", <i>FEMS Microbiol. Lett.</i> , Vol. 137, pp. 257-263 (1996)
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	20	Thanassi DG, et al., "The Chaperone/Usher Pathway: A Major Terminal Branch of the General Secretory Pathway", <i>Curr. Opin. Microbiol.</i> , Vol. 1, pp. 223-231 (1998)
	21	Thanassi DG, et al., "The PapC Usher Forms an Oligomeric Channel: Implications for Pilus Biogenesis Across the Outer Membrane", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 95, pp. 3146-3151 (1998)

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